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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |  | ATTORNEY'S DOCKET NUMBER<br>5016-0102PUS1                           |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP2004/007880  | INTERNATIONAL FILING DATE<br>1 June 2004 | U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/558934</b> |
| PRIORITY DATE CLAIMED<br>4 June 2003  |  |   |
| TITLE OF INVENTION<br>SUBSTRATE AND METHOD OF MANUFACTURING THE SAME  |  |   |
| APPLICANT(S) FOR DO/EO/US<br>Tadahiro OHMI; Akihiro MORIMOTO; Teruhiko SUZUKI; and Takeyoshi KATO   |  |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |  |   |
| <p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))</p> <p>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input checked="" type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> |  |   |
| <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p>   |  |   |

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|  |                               |   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
|--|-------------------------------|---|--|--|--------------|-------------|--|--|-----------|--|---|--|-----------|--|--|--|-----------|--|--------------------------|--|-----------|--|---|--|--|--|--------------|--------------|---|------|------------|-------|--|------------|--|--|----|--|--------|--------------|--------------|------|--------------|-----------|---|---------|--------------------|---------|--|--------|---|--|---|--|-------------------------------|--|-----------|--|--|--|--|--|------------|--|-----------|--|---|--|----|--|----------------------|--|-----------|--|--|--|----------|--|-----------------------|--|-----------|--|--|--|------------------------|----|--|--|----------------------|----|
| U. S. APPLICATION NO. (If known, see 37 CFR 1.65)  | INTERNATIONAL APPLICATION NO. | ATTORNEY'S DOCKET NUMBER  |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| 10/58934<br>NEW  | PCT/JP2004/007880             | 5016-0102PUS1   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| 20. <input checked="" type="checkbox"/> Other items or information: PCT/IB/301; PCT/IB/304; PCT/IB/308; PCT/ISA/210; Drawings - Seven (7) Sheets   |                               |   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| <table border="1"> <tr> <td colspan="2">The following fees have been submitted</td> <td>CALCULATIONS</td> <td>PTO USEONLY</td> </tr> <tr> <td colspan="2">21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) ..... \$300</td> <td>\$ 300.00</td> <td></td> </tr> <tr> <td colspan="2">22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))<br/>If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$0<br/>All other situations ..... \$200</td> <td>\$ 200.00</td> <td></td> </tr> <tr> <td colspan="2">23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))<br/>If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$0<br/>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$100<br/>International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB ..... \$400<br/>All other situations ..... \$500</td> <td>\$ 400.00</td> <td></td> </tr> <tr> <td colspan="2">TOTAL OF 21, 22 and 23 =</td> <td>\$ 900.00</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).<br/>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</td> <td></td> <td></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> </tr> <tr> <td>32 - 100 =</td> <td>/50 =</td> <td></td> <td>x \$250.00</td> </tr> <tr> <td colspan="2">Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> <td>\$</td> <td></td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> </tr> <tr> <td>Total claims</td> <td>21 - 20 =</td> <td>1</td> <td>x 50.00</td> </tr> <tr> <td>Independent claims</td> <td>3 - 3 =</td> <td></td> <td>x 0.00</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+</td> <td></td> </tr> <tr> <td colspan="2">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 950.00</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.</td> <td></td> <td></td> </tr> <tr> <td colspan="2">SUBTOTAL =</td> <td>\$ 950.00</td> <td></td> </tr> <tr> <td colspan="2">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="2">TOTAL NATIONAL FEE =</td> <td>\$ 950.00</td> <td></td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td>\$ 40.00</td> <td></td> </tr> <tr> <td colspan="2">TOTAL FEES ENCLOSED =</td> <td>\$ 990.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Amount to be refunded:</td> <td>\$</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be charged</td> <td>\$</td> </tr> </table> |                               |   | The following fees have been submitted |  | CALCULATIONS | PTO USEONLY | 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) ..... \$300 |  | \$ 300.00 |  | 22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))<br>If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$0<br>All other situations ..... \$200 |  | \$ 200.00 |  | 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))<br>If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$0<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$100<br>International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB ..... \$400<br>All other situations ..... \$500 |  | \$ 400.00 |  | TOTAL OF 21, 22 and 23 = |  | \$ 900.00 |  | <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof. |  |  |  | Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | 32 - 100 = | /50 = |  | x \$250.00 | Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). |  | \$ |  | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | Total claims | 21 - 20 = | 1 | x 50.00 | Independent claims | 3 - 3 = |  | x 0.00 | MULTIPLE DEPENDENT CLAIM(S) (if applicable) |  | + |  | TOTAL OF ABOVE CALCULATIONS = |  | \$ 950.00 |  | <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. |  |  |  | SUBTOTAL = |  | \$ 950.00 |  | Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). |  | \$ |  | TOTAL NATIONAL FEE = |  | \$ 950.00 |  | Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property |  | \$ 40.00 |  | TOTAL FEES ENCLOSED = |  | \$ 990.00 |  |  |  | Amount to be refunded: | \$ |  |  | Amount to be charged | \$ |
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| 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) ..... \$300   |                               | \$ 300.00   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
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| TOTAL OF 21, 22 and 23 =   |                               | \$ 900.00   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
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| Total Sheets   | Extra Sheets                  | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE                                   |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| 32 - 100 =   | /50 =                         |   | x \$250.00                             |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).   |                               | \$  |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| CLAIMS   | NUMBER FILED                  | NUMBER EXTRA  | RATE                                   |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| Total claims   | 21 - 20 =                     | 1   | x 50.00                                |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| Independent claims   | 3 - 3 =                       |   | x 0.00                                 |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |                               | +   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| TOTAL OF ABOVE CALCULATIONS =  |                               | \$ 950.00   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.   |                               |   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| SUBTOTAL =   |                               | \$ 950.00   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  |                               | \$  |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| TOTAL NATIONAL FEE =   |                               | \$ 950.00   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |                               | \$ 40.00  |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
| TOTAL FEES ENCLOSED =  |                               | \$ 990.00   |  |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
|  |                               | Amount to be refunded:  | \$                                     |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |
|  |                               | Amount to be charged  | \$                                     |  |              |             |  |  |           |  |   |  |           |  |  |  |           |  |                          |  |           |  |   |  |  |  |              |              |   |      |            |       |  |            |  |  |    |  |        |              |              |      |              |           |   |         |                    |         |  |        |   |  |   |  |                               |  |           |  |  |  |  |  |            |  |           |  |   |  |    |  |                      |  |           |  |  |  |          |  |                       |  |           |  |  |  |                        |    |  |  |                      |    |

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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

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